

List of Journals abstracted during 1968 and their abbreviations

A.E.I. Engineering	A.E.I. Eng.
ASM Transactions Quarterly (U.S.A.)	Am. Soc. Metals Trans. Quart.
Acta Metallurgica (U.S.A.)	Acta Met.
Acta Technica Acad. Sci. Hung.	Acta Tech. Acad. Sci. Hung.
Agricultural and Horticultural Abstracts	Agr. Hort. Abstr.
ALCOA Aluminium Newsletter	ALCOA Aluminium Newsletter
Alloy Pot (U.S.A.)	Alloy Pot
Aluminium Courier	Aluminium Courier
American Ceramic Society Bulletin	Am. Ceram. Soc. Bull.
American Industrial Hygiene Association Journal	Am. Ind. Hyg. Assoc. J.
American Journal of Public Health	Am. J. Public Health
American Metal Market	Am. Metal Market
American Paint Journal	Am. Paint J.
Analyst	Analyst
Analytical Abstracts	Anal. Abstr.
Analytical Chemistry (U.S.A.)	Anal. Chem.
Analytica Chimica Acta (Holland)	Anal. Chim. Acta
Annals of Occupational Hygiene	Ann. Occupational Hyg.
Anticorrosion Methods and Materials	Anticorrosion Methods Mater.
Architect and Building News	Architect Bldg. News
Architects Journal	Architects J.
Architectural Association Journal	Architectural Assoc. J.
Architectural Forum	Architectural Forum
Architectural Review	Architectural Rev.
Archiv Eisenhüttenwesen (Germany)	Arch. Eisenhuettenw.
Archives of Environmental Health (U.S.A.)	Arch. Environ. Health
Atom	Atom
Australasian Corrosion Engineering	Australasian Corrosion Eng.
Australian Hardware Journal	Australian Hardware J.
Australian Paint Journal	Australian Paint J.
Automobile Engineer	Automobile Engr.
Automotive Design Engineering	Automotive Design Eng.
Automotive Industries (U.S.A.)	Automotive Ind.
Battelle Technical Review (U.S.A.)	Battelle Tech. Rev.
Battery Man (U.S.A.)	Battery Man
Belgicatom	Belgicatom
Bell Laboratories Record (U.S.A.)	Bell Lab. Record
British Chemical Engineering	Brit. Chem. Eng.
British Corrosion Journal	Brit. Corrosion J.

British Journal of Applied Physics	Brit. J. Appl. Phys. J. Phys. D
Journal of Physics D	
British Journal of Industrial Medicine	Brit. J. Ind. Med.
British Technology Index	Brit. Technol. Index
British Welding Journal	Brit. Welding J.
B.S.I. News	B.S.I. News
Building	Building
Building Engineer	Bldg. Engr.
Building Equipment News	Bldg. Equipment News
Building Industries and Scottish Architect	Bldg. Ind. Scot. Arch.
Building Industry News	Bldg. Ind. News
Building Research Station Digest	Bldg. Res. Station Dig.
Bulletin of the British Non-Ferrous Metals Research Association	Bull. Brit. Non-Ferrous Metals Res. Assoc.
Ceramic Age (U.S.A.)	Ceram. Age
Ceramic Industry (U.S.A.)	Ceram. Ind.
Chartered Surveyor	Chartered Surveyor
Chemical Abstracts (Part 2 Applied Chemistry) (U.S.A.)	Chem. Abstr.
Chemical Age	Chem. Age
Chemical Communications	Chem. Commun.
Chemical Engineering (U.S.A.)	Chem. Eng.
Chemical and Process Engineering	Chem. Process Eng.
Chemical and Engineering News (U.S.A.)	Chem. Eng. News
Chemical Engineering Progress (U.S.A.)	Chem. Eng. Progr.
Chemical Reviews (U.S.A.)	Chem. Rev.
Chemicky Prumysl (Czechoslovakia)	Chem. Prumysl
Chemist-Analyst (U.S.A.)	Chemist-Analyst
Chemistry and Industry	Chem. Ind.
Chemistry in Britain	Chem. Britain
Cobalt (Belgium)	Cobalt
Cominco Magazine (Canada)	Cominco Mag.
Cominco Technical Newsletter (Canada)	Cominco Tech. Newsletter
Consulting Engineer	Consulting Engr.
Co-operative Electrical Research	Co-op. Elec. Res.
Copper	Copper
Corrosion (U.S.A.)	Corrosion
Corrosion (France)	Corrosion
Corrosion Prevention and Control	Corrosion Prevent. Control
Corrosion Science	Corrosion Sci.
Current Review of Technical Literature (Cominco) (Canada)	Cominco Current Rev. Tech. Lit.
Custom Die Caster (U.S.A.)	Custom Die Caster
Czechoslovak Glass Review	Czech. Glass Rev.

Design

Deutsche Farben Zeitschrift
 Die Casting Engineer (U.S.A.)
 Diecasting and Metal Moulding
 Direct Current
 Draht (German Edition) (Germany)

Eastern Metals Review

Efco Udylyte Review
 Electric Vehicles
 Electrical Distribution
 Electrical and Electronic Abstracts
 Electrical Review
 Electrical Times
 Electrochemical Technology (U.S.A.)
 Electrochimica Acta
 Electronics and Power
 Electroplating and Metal Finishing
 Electro-Technology (U.S.A.)
 Endeavour
 Engineer
 Engineering
 Engineering Digest (Canada)
 Engineering Industries Journal
 Engineering Materials and Design
 Engineering News
 Engineers Digest
 Esso Oilways
 Electrolytic Zinc Abstracts (Australia)
 Electrolytic Zinc Review (Australia)

Farbe und Lack (Germany)

Farm Buildings
 Fonderie Belge (Belgium)
 Foundry (U.S.A.)
 Foundry Trade Journal

Galvano (France)

Galvanotechnik (Germany)
 Giesserei (Germany)
 Glass Technology
 Graphic Technology
 Graphis (Switzerland)

Hungarian Technical Abstracts

Hutnicke Listy (Czechoslovakia)
 Illustrated Carpenter and Builder

Design

Deut. Farben Z.
 Die Casting Engr.
 Diecasting Metal Moulding
 Direct Current
 Draht (German Ed.)

Eastern Metals Rev.

Efco Udylyte Rev.
 Electric Vehicles
 Electrical Distribution
 Elec. Electron. Abstr.
 Elec. Rev.
 Elec. Times
 Electrochem. Technol.
 Electrochim. Acta
 Electron. Power
 Electroplating Metal Finishing
 Electro-Technol.
 Endeavour
 Engineer
 Engineering
 Eng. Dig.
 Eng. Ind. J.
 Eng. Mater. Design
 Eng. News
 Engrs. Dig.
 Esso Oilways
 Electrolytic Zinc Abstr.
 Electrolytic Zinc Rev.

Farbe Lack

Farm Buildings
 Fonderie Belge
 Foundry
 Foundry Trade J.

Galvano

Galvanotechnik
 Giesserei
 Glass Technol.
 Graphic Technol.
 Graphis

Hung. Tech. Abstr.

Hutnicke Listy
 Illustrated Carpenter Bldr.

Industrial and Engineering Chemistry (Fundamentals) (Process Design Develop.) (Prod. Res. Develop.) (U.S.A.)	Ind. Eng. Chem.
Industrial Equipment News	Ind. Equipment News
Industrial Finishing (U.K.)	Ind. Finishing
Industrial Finishing (U.S.A.)	Ind. Finishing
Industrial Heating (U.S.A.)	Ind. Heating
Industrial Medicine and Surgery (U.S.A.)	Ind. Med. Surg.
Industrial Trucks	Ind. Trucks
Industrialised Building	Industrialised Bldg.
Industrie Lackier Betrieb (Germany)	Ind. Lackier Betrieb
Interbuild	Interbuild
International Journal of Powder Metallurgy (U.S.A.)	Intern. J. Powder Met.
Iron Age (U.S.A.)	Iron Age
Iron Age Metalworking International	Iron Age Metalworking Intern.
Iron and Steel	Iron Steel
Journal American Ceramic Society	J. Am. Ceram. Soc.
Journal American Chemical Society	J. Am. Chem. Soc.
Journal Applied Chemistry	J. Appl. Chem.
Journal of Applied Physics (U.S.A.)	J. Appl. Phys.
Journal Chemical Physics (U.S.A.)	J. Chem. Phys.
Journal Chemical Society	J. Chem. Soc.
Part A Inorganic, Physical, Theoretical	Part A, Inorg. Phys. Theoret.
Part B Physical Organic	Part B, Phys. Org.
Part C Organic	Part C, Organic
Journal of Chronic Diseases	J. Chronic Diseases
Journal Electroanalytical Chemistry	J. Electroanal. Chem. Interfacial
Interfacial Electrochemistry (Holland)	Electrochem.
Journal Electrochemical Society (U.S.A.)	J. Electrochem. Soc.
Journal of Hygiene	J. Hyg.
Journal Institute Metals	J. Inst. Metals
Journal Iron and Steel Institute	J. Iron Steel Inst.
Journal of Materials Science	J. Mater. Sci.
Journal of Metals (U.S.A.)	J. Metals
Journal of Occupational Medicine (U.S.A.)	J. Occupational Med.
Journal of Paint Technology (U.S.A.)	J. Paint Technol.
Journal Oil and Colour Chemists' Association	J. Oil Colour Chemists' Assoc.
Journal Physical Chemistry (U.S.A.)	J. Phys. Chem.
Korose a Ochrana Materialu (Czecho- slovakia)	Korose Ochrana Mater.

Lancet	Lancet
Lead	Lead
Lithoprinter	Lithoprinter
Machine Design (U.S.A.)	Machine Design
Machinery	Machinery
Marine Engineer and Naval Architect	Marine Engr. Naval Arch.
Mass Production	Mass Prod.
Materials Engineering (U.S.A.)	Mater. Eng.
Materials Protection (U.S.A.)	Mater. Protect.
Materials Research Bulletin (U.S.A.)	Mater. Res. Bull.
Materials Research and Standards (U.S.A.)	Mater. Res. Std.
Metal Bulletin	Metal Bull.
Metal Finishing (U.S.A.)	Metal Finishing
Metal Finishing Abstracts	Metal Finishing Abstr.
Metal Finishing Journal	Metal Finishing J.
Metal Powder Report	Metal Powder Rept.
Metal Progress (U.S.A.)	Metal Progr.
Metals and Materials	Metals Mater.
Metal Science Journal	Metal Sci. J.
Metal Forming	Metal Forming
Metall (Germany)	Metall
Metalloberfläche (Germany)	Metalloberflaeche
Metals Abstracts	Metals Abstr.
Metallurgia	Metallurgia
Metallurgia Italiana	Met. Ital.
Metallurgical Patents Journal	Met. Pat. J.
Metallurgie et la Construction Me-	Metallurgie
canique (France)	
Metallurgist (U.S.S.R.)	Metallurgist (U.S.S.R. English Transl.)
Metals	Metals
Metalworking Production	Metalworking Prod.
Mimag (Australia)	Mimag
Montevecchio (Italy)	Montevecchio
Monthly Review of Technical Literature	Monthly Rev. Tech. Lit. Brit. Rail-
British Railways Research Department	ways Res. Dept.
National Builder	Nat. Bldr.
Nature	Nature
New Jersey Zinc Co. Library Bulletin	New Jersey Zinc Co. Library Bull.
New Scientist	New Scientist
Nickel Bulletin	Nickel Bull.
NLL Translations Bulletin	Nat. Lending Library Transl. Bull.
Nuclear Energy	Nucl. Energy
Nuclear Engineering	Nucl. Eng.
Nuclear Engineering Abstracts	Nucl. Eng. Abstr.
Nuclear Engineering and Design	Nucl. Eng. Design
(Holland)	

Nucleonics (U.S.A.)

Ochrona Przed Korozja (Poland)
Official Gazette (U.S.A.)

Paintindia
Paint, Oil and Colour Journal
Paint and Paint Manufacture
Paint Technology
Paint and Varnish Production (U.S.A.)
Peintures Pigments Vernis (France)
Philosophical Magazine
Physical Review (U.S.A.)
Physics of Metals and Metallography (U.S.S.R.)
Piombo e Zinco (Italy)
Plating (U.S.A.)
Platinum Metals Review
Plumber and Heating Engineer
Plumbing Trade Journal
Polish Technical Abstracts
Post Office Electrical Engineers Journal
Power and Works Engineering
Power Record
Prace Instytutów Hutniczych (Poland)
Precision Metal (U.S.A.)
Printing Abstracts
Print in Britain
Product Design Engineering
Production Engineering (U.S.A.)
Product Finishing
Przegląd Odlewnictwa (Poland)
Przemysł Chemiczny (Poland)
Public Health Report (U.S.A.)

Quarterly Reviews

Railway Gazette
Resin News
Review Current Literature Paint Allied Industries
Revista de Metalurgia (Madrid)
Revue Roumaine des Sciences Techniques Serie de Metallurgie
Royal Institute of British Architects Journal
Royal Institute of Chemistry Reviews
Rubber Chemistry and Technology (U.S.A.)

Nucleonics

Ochrona Przed Korozja
Offic. Gaz. U.S. Pat. Office

Paintindia
Paint Oil Colour J.
Paint Manuf.
Paint Technol.
Paint Varnish Prod.
Peintures Pigments Vernis
Phil. Mag.
Phys. Rev.
Phys. Metals Metallog. (U.S.S.R. English Transl.)
Piombo Zinco
Plating
Platinum Metals Rev.
Plumber Heating Engr.
Plumbing Trade J.
Polish. Tech. Abstr.
Post Office Elec. Engrs. J.
Power Works Eng.
Power Record
Prace Inst. Hutniczych
Precision Metal
Printing Abstr.
Print Britain
Prod. Design Eng.
Prod. Eng.
Prod. Finishing
Przegląd Odlewnictwa
Przemysł Chem.
Public Health Rept.

Quart. Rev.

Railway Gazette
Resin News
Rev. Current Lit. Paint Allied Ind.
Rev. Met.
Rev. Roumaine Sci. Tech. Ser. Met.
Roy. Inst. Brit. Architects J.
Roy. Inst. Chem. Rev.
Rubber Chem. Technol.

Rubber Developments	Rubber Develop.
Rudy i Metale Niezelazne (Poland)	Rudy Metale Niezelazne
Russian Castings Production (U.S.S.R.)	Russ. Castings Prod. (U.S.S.R. English Transl.)
Scripta Metallurgica (U.S.A.)	Scripta Met.
Society of Automotive Engineers Journal	Soc. Automotive Engrs. J.
Science Horizons (U.S.A.)	Sci. Horizons
Science Journal	Sci. Journal
Scientific American	Sci. American
Scottish Plumbers Journal	Scot. Plumbers J.
Sheet Metal Industries	Sheet Metal Ind.
Soils and Fertilizers	Soils Fertilizers
Space/Aeronautics (U.S.A.)	Space/Aeronautics
Stahl und Eisen (Germany)	Stahl Eisen
Steel (U.S.A.)	Steel
Steel Review	Steel Rev.
Surface Coatings	Surface Coatings
Surveyor	Surveyor
System Building and Design	System Bldg. Design
Technica (Switzerland)	Technica
Technical Digest (Czechoslovakia)	Tech. Dig.
Tin News	Tin News
Tin and its uses	Tin its uses
Transactions of the Faraday Society	Trans. Faraday Soc.
Transactions Indian Institute Metals	Trans. Indian Inst. Metals
Transactions of the Institute Metal Finishing	Trans. Inst. Metal Finishing
Transactions of the Met. Soc. A.I.M.E. (U.S.A.)	Trans. Met. Soc. A.I.M.E.
Transport Age	Transport Age
Transportberatung (Germany)	Transportberatung
Travaux de Peinture (France)	Trav. Peinture
Tsvetnye Metally (U.S.S.R.)	Tsvetn. Metal.
Tsvetnya Metallurgiya (U.S.S.R.)	Tsvetn. Met.
Ulster Builder	Ulster Bldr.
U.S. Government Research and Development Reports	U.S. Govt. Res. Develop. Repts.
Wear (Holland)	Wear
Welding in the World	Welding World
Welding Journal (U.S.A.)	Welding J.
Werkstoffe und Korrosion (Germany)	Werkstoffe Korrosion
Wire (Germany, English Ed.)	Wire
Wire Industry	Wire Ind.

Wire and Wire Products (U.S.A.)
Wire World International

Wire Wire Prod.
Wire World Intern.

Zeitschrift für Erzbergbau und Metall-
hüttenwesen (Germany)

Z. Erzbergbau Metallhuettenw.

Zhurnal Obshchei Khimii (U.S.S.R.)

Zh. Obshch. Khim.

Zinc Cadmium et Alliages, Revue
Technique (France)

Zinc Cadmium Alliages Rev. Tech.

Zinc Cadmium et Alliages Bulletin
Analytique (France)

Zinc Cadmium Alliages Bull. Anal.

Zeitschrift für Metallkunde (Germany)

Z. Metallk.

Zinc Spotlight

Zinc Spotlight

- Adams, F. 5036
 Addleson, L. 5110
 Adema, D. M. M. 5596
 Adler, J. G. 5067
 Agababayan, F. S. 5613
 Aizenberg, V. Sh. 5672
 Akimenko, N. I. 5258
 Akimoto, S. 5547
 Alekseev, A. G. 5180
 Alekseev, Y. 5220
 Alekseevsky, N. E. 5506
 Aleskovskiy, V. B. 5121
 Allen, C. A. 5118
 Allen, C. H. 5381
 Almquist, L. 5138
 Alybina, A. N. 5375
 American Society for Testing &
 Materials 5617, 5633, 5663, 5664
 Andrade, E. N. da C. 5410, 5620
 Andrews, J. L. 5198
 Anfimova, E. A. 5671
 Angell, C. A. 5387
 Anokbina, I. N. 5160
 Appelt, K. 5636
 Araten, D. 5442
 Arduini, L. 5537
 Arishkevich, A. M. 5375
 Arlett, R. H. 5544
 Armstrong, B. M. 5462
 Armstrong, J. A. 5174
 Associated Electrical Industries Ltd.
 5428, 5660
 Auchapt, J. M. 5271
 Aust, K. T. 5406
 Averkin, A. A. 5071
 Aylward, J. B. 5188, 5641
 Azoo, J. A. 5644
- Backofen, W. A. 5476
 Badoz-Lambling, J. 5532
 Bagshaw, N. E. 5226
 Bailey, P. T. 5559
 Bain, W. R. 5318
 Baker, R. S. 5142
- Bakurov, B. T. 5279
 Bankiewicz, G. 5080
 Baralls, G. 5280, 5512
 Baranov, S. M. 5129
 Barilovich, O. I. 5448
 Baroni, L. 5537
 Baronnie, P. 5361
 Barry, B. T. K. 5059
 Bateson, S. 5051
 Baumann, A. J. 5099
 Beatty, H. A. 5206, 5347
 Becker, J. H. 5450
 Becker, R. D. 5370
 Behl, W. K. 5191
 Belashchenko, D. K. 5564
 Belyaev, A. I. 5396
 Beranek, M. 5083
 Berchenko, M. A. 5396
 Bergeron, C. G. 5336
 Beridze, P. Z. 5278
 Bernert, J. 5221
 Bernhardt, W. 5231
 Berolo, O. 5528
 Berry, G. 5333
 Berzina, I. G. 5207
 Bever, M. B. 5211, 5458
 Bhatnagar, R. P. 5536
 Bichuya, A. L. 5580
 Bird, T. L. 5174
 Bitti, R. R. 5565
 Bjorling, G. 5086
 Blander, M. 5190
 Blank, Z. 5621
 Blanks, R. F. 5472
 Bloom, H. 5038, 5054, 5549, 5647
 Bode, H. J. 5449
 Boehr, D. 5625
 Bogatov, P. N. 5132
 Bogen, D. C. 5033
 Bogenschütz, A. F. 5296
 Bolling, G. F. 5334
 Bolshanina, M. A. 5477, 5479
 Bonnaire, Y. 5239
 Borchers, H. 5581

- Bork, V. A. 5241
 Bornstein, J. 5646
 Borromee-Gautier, C. 5514
 Bourgeois, P. 5612
 Bowman, D. L. 5450
 Bradley, W. W. 5302
 Bratanov, V. 5085
 Breed, B. R. 5208
 Breimer, H. 5399
 Brenner, W. 5621
 Breyer, N. N. 5630
 Bright, N. F. H. 5047
 Brintseva, V. I. 5306
 British Columbia Research Council 5443
 British Industrial Plastics Ltd. 5424
 British Iron & Steel Research Association 5379, 5380
 Brockman, F. G. 5308
 Brodskii, I. I. 5269
 Brooks, R. J. 5104
 Brotzen, F. R. 5456
 Brown, R. W. 5504
 Bryntseva, V. N. 5525
 Buchanan, R. C. 5298
 Bühn, R. 5626
 Bukowiecki, J. 5513
 Burbank, J. 5488
 Burlakov, I. A. 5075
 Burns, R. M. 5302
 Busse-Machukas, V. B. 5483
 Butler, R. N. 5337

 Cadoff, I. B. 5064
 Cahill, T. 5355, 5414
 Cairns, J. H. 5312
 Calawa, A. R. 5455
 Camaggi, C. M. 5642
 Carpenter, S. H. 5225
 Carr, D. S. 5053, 5416
 Carr, J. D. 5041
 Caslavskaja, V. 5545
 Central Scientific Research & Mining-Prospecting Institute of Non-ferrous, Rare & Precious Metals, U.S.S.R. 5675
 Cerjak, H. 5230
 Chaklader, A. C. D. 5210
 Chakrabarti, C. L. 5587
 Chaloupka, Z. 5552
 Charette, G. G. 5607
 Charles, J. A. 5578
 Charles, M. W. 5569
 Chase, A. B. 5143
 Chen, J. Y. 5301
 Cheng, K. L. 5534
 Chernenko, L. E. 5200
 Chizzini, F. 5103
 Chu, C. W. 5204
 Churadze, L. I. 5278
 Claeson, T. 5556
 Clark, P. 5445
 Clevite Corporation 5249
 Cline, H. E. 5091
 Coast Metals Inc. 5567
 Cocks, E. J. 5667
 Cohen, L. A. 5505
 Cole, G. S. 5334
 Cominco Ltd. 5490, 5491
 Commissariat à L'Energie Atomique 5315
 Cook, A. R. 5246, 5329
 Cook, C. F. 5203
 Cooper, E. K. 5359
 Cornell, J. H. 5299
 Cornwell, J. C. 5534
 Coronyuk, P. I. 5259
 Cosoveanu, G. 5576
 Coste, G. 5069
 Cotsworth, J. L. 5383
 Cramsie, T. W. 5250
 Crawley, A. F. 5212, 5457
 Crivelli-Visconti, I. 5523
 Crocker, A. J. 5566, 5658
 Cronan, C. J. 5598
 Crowther, P. 5515
 Cygonek, R. 5297
 Cyrankowska, M. 5432
 Czarnecki, M. 5670

 Dally, E. B. 5415
 Darlak, J. O. 5548
 Davidson, J. M. 5605
 Davies, A. G. 5195, 5254, 5440, 5645
 Davies, D. I. 5187, 5603, 5638, 5639
 Davis, J. G. 5199
 de Boeck, R. 5036
 de Jonge, J. 5550

- de Vries, R. C. 5392
 Deburck, A. 5239
 Delabrouille, J. C. 5371
 Delmarskii, Y. K. 5275
 Deschamps, P. 5239
 Deshmukh, G. S. 5433
 Desre, P. 5323
 diBenedetto, B. 5598
 Dick, R. J. 5516
 Dickens, B. 5073
 Dicks, L. 5515
 Dijkhuis, C. 5602
 Dijkhuis, R. 5602
 Dimitrov, D. 5220
 Dixmier, J. 5565
 Dmitrenko, I. M. 5401
 Dobrosavljevic, L. 5398
 Donaldson, D. J. 5494
 Donoso, G. 5172
 Doran, D. G. 5438
 Doremus, G. L. 5199
 Dorning, B. F. 5566
 Dorweiler, F. 5286
 Douglas, A. W. 5461
 Downarowicz, J. 5432
 Draghici, I. 5615
 Dresner, J. 5065
 Drowart, A. 5289
 Drowart, J. 5289
 Druyan, V. M. 5269
 Du Pont, E. I., De Nemours & Co. Inc. 5510
 Dubrovin, A. V. 5506
 Dudderar, T. D. 5349
 Duffy, J. 5349
 Dugan, A. E. 5614
 Duisman, J. A. 5331
 Dunaev, Y. D. 5525
 Duncan, J. 5489
 Dupuis, C. 5398
 Dus, B. 5609
 Dutchak, Y. I. 5372
 Dutko, J. 5674
 Dyer, G. 5605

 Edwards, J. B. 5287, 5481
 Efremov, I. F. 5146
 Egan, J. J. 5191
 Eggart, H. C. 5608

 Egorova, L. S. 5546
 Ehrhardt, H. 5377
 Eisen, J. 5105
 Elbaum, C. 5066
 Elsukova, T. F. 5477, 5478, 5479
 Elliott, R. 5162, 5236
 Endo, K. 5176
 Era, A. 5486
 Erdmann-Jesnitzer, F. 5230, 5231
 Ermolov, V. M. 5564
 Eru, I. I. 5448
 Escue, R. B. 5117
 Essmann, U. 5068, 5507
 Evans, J. A. 5226
 Everett, G. E. 5203
 Eysymontt, J. 5147

 Fabel, D. A. 5505
 Faes, M. H. 5168
 Farbwerke Franz Rasquin G.m.b.H. 5666
 Farr, J. P. G. 5351
 Faruqi, F. A. 5112
 Fate, W. A. 5123, 5654, 5655
 Fedorov, G. V. 5132
 Fedukhina, G. P. 5241
 Feigelson, R. S. 5182
 Feliu, S. 5520
 Fickert, K. W. J. 5051
 Finnie, I. 5266
 Fischer, G. 5518
 Flavell, W. 5568
 Fleischmann, M. 5116
 Flemings, M. C. 5090
 Flengas, S. N. 5607
 Fontana, C. 5078
 Forbes, D. W. A. 5114
 Formanek, V. 5420
 Forsyth, A. C. 5189, 5300
 Foster, E. H. 5560
 Fredericks, W. J. 5118
 Frei, R. W. 5101
 Freidenfelds, E. 5183
 Freise, K. 5364
 Frodyma, M. M. 5101
 Frumar, M. 5552
 Fryer, P. C. 5593
 Fuhrmann, N. 5276
 Funahashi, S. 5035

- Gann, W. 5120
 Gaur, J. N. 5394, 5431
 Gavrilov, B. G. 5606
 Gehring, E. 5140
 General Motors Corporation 5262
 Gerlach, J. K. 5148, 5213, 5619
 German, W. L. 5599
 Gerth, K. 5492
 Glauque, W. F. 5331
 Giessen, B. C. 5514
 Gifkins, R. C. 5161
 Gilbert, P. T. 5312
 Gillespie, C. J. 5202
 Gladstone, W. A. F. 5184
 Glatte, W. 5119
 Glembotskii, V. A. 5671
 Glozman, I. A. 5389
 Gobrecht, H. 5124, 5653
 Gofmann, G. 5158
 Golovashkin, A. I. 5402
 Gomelauri, V. L. 5179
 Gomez Coedo, A. 5378
 Gonzales, F. 5103
 Gonzalez, J. A. 5520
 Gordon, M. B. 5127
 Gorrie, T. M. 5209
 Gorska, M. 5147
 Gorth, H. 5194, 5299
 Gottardi, V. 5388
 Grant, N. J. 5514
 Gray, N. B. 5153
 Griesshammer, G. 5311
 Griffiths, J. R. 5578
 Grigor'ev, B. P. 5141
 Grimshaw, J. 5644
 Grimvall, G. 5556
 Grubitsch, H. 5255
 Grzhimalskii, L. L. 5126
 Gschneider, K. A. 5290, 5521
 Gubcova, A. 5317
 Guinier, A. 5565
 Guseva, L. I. 5338

 Hadert, H. 5366
 Hagemark, K. 5190
 Hahn, H. 5560
 Halana, H. J. 5560
 Halim, H. 5538
 Hall, D. 5599
 Hammerich, T. 5055
 Hampson, N. A. 5351
 Harris, N. H. 5181
 Harrison, M. J. 5184
 Harrison, P. G. 5645
 Hart, E. W. 5159
 Hastie, J. W. 5038, 5054, 5441, 5549, 5647
 Haupt, H. J. 5393
 Hauser, J. J. 5344
 Hauttmann, A. 5288
 Haworth, C. W. 5130
 Hayakawa, S. 5111
 Heide, B. 5419
 Hellawell, A. 5097
 Hengstenberg, D. 5190
 Henisch, H. K. 5614
 Hennig, U. 5619
 Henry, M. C. 5194, 5299
 Herdlicka, C. 5539
 Herlem, M. 5532
 Herrnkind, W. 5224
 Hesson, J. C. 5368
 Hester, R. E. 5037
 Hewgill, F. R. 5253, 5499
 Hewitt, D. G. 5253
 Hikata, A. 5066
 Hiscocks, S. E. R. 5257
 Hitachi Seisakusho K. K. 5264
 Hitchcock, R. D. 5656
 Hlasnik, I. 5506
 Hoare, W. E. 5059
 Hofmann, M. 5653
 Hofstadter, R. 5415
 Hoggart, J. S. 5237
 Holliday, A. K. 5196
 Holm, W. 5399
 Holmes, R. W. 5487
 Hopkins, P. D. 5193
 Horn, H. 5393
 Hoste, J. 5036, 5430
 Houston, J. R. 5434
 Howes, M. A. H. 5577
 Hsu, Y. T. 5117
 Huber, C. O. 5592
 Huber, F. 5391, 5393
 Huckle, E. E. 5287, 5481
 Hueck, H. J. 5596
 Hughes, K. 5543

Hummel, F. A. 5439

Ikeda, T. 5260

Ikushima, K. 5511

Iles, D. H. 5496

Imperial Smelting Corporation
(N.S.C.) Ltd. 5285

Indian Lead Zinc Information Centre
5107

Ingraham, T. R. 5418

Inman, D. 5292

International Electrotechnical Com-
mission 5435

International Lead Zinc Research
Organization 5434, 5443

Ireland, D. T. 5118

Irving, H. M. N. H. 5582

Isard, J. O. 5543

Israili, A. H. 5583

Isupov, V. A. 5050

Ivantsova, V. I. 5057

Ivashentsev, Y. I. 5058

Jackson, J. E. 5067

Jain, D. S. 5394, 5431

James, B. A. J. 5355, 5414

James, W. J. 5500

Jansons, G. 5183

Janz, G. J. 5602

Jeffes, J. H. E. 5056

Jeitschko, W. 5052

Jena, A. K. 5211, 5458

Jenkins, W. N. 5058

Jensen, J. W. 5157

Jessop, G. N. 5196

Jimenez Seco, J. L. 5378

Jinno, H. 5251

Johnson, D. W. 5439

Johnson, J. W. 5500

Johnson Matthey & Co. Ltd. 5252

Jolliffe, K. H. 5610

Jones, J. C. H. 5374

Jovane, F. 5524

Kabalkina, S. S. 5563

Kabanov, B. N. 5313

Kabil, Y. 5266

Kaceti, L. 5270

Kakar, A. K. 5210

Kalinkin, I. P. 5121

Kaluza, A. 5062

Kambara, G. 5251

Kaminarskii, G. R. 5075

Kammel, R. 5281

Kandaurova, G. S. 5652

Kaplan, I. R. 5104

Kappes, K. A. 5051

Karatushin, S. I. 5129

Karch, Z. 5242

Karklina, M. I. 5072

Kasimov, S. 5071

Kaufman, S. M. 5092

Keezer, R. C. 5450

Kerr, H. W. 5134, 5135

Khalizova, V. A. 5238

Khanna, R. K. 5657

Kharalampiey, G. 5133

Kharkov, E. I. 5529

Khobdabergenov, R. Zh. 5284

Kiewlicz, J. 5079

Kingston, P. W. 5166

Kleinman, M. T. 5033

Klie, R. H. 5044

Klir, L. 5083

Knabenbaur, W. 5120

Knockaert, O. E. 5168

Kobayashi, S. 5074

Kober, G. 5032

Koch, O. G. 5328

Kochkin, D. A. 5365

Koenig, J. H. 5601

Kolarov, M. 5282

Kolosov, B. V. 5284

Kolta, G. A. 5086

Konev, A. S. 5575

Kopf, P. W. 5209

Kovalchik, T. L. 5072

Kovalenko, P. N. 5586

Kozin, L. F. 5267

Kraphkhin, V. V. 5403

Kraska, I. R. 5627

Krishnan, K. 5037

Krochmal, J. 5426

Krukowiecki, W. 5417

Kubisz, K. 5093

Kuenstler, H. G. 5356

Kumar, A. 5394

Kumar, R. 5324, 5353, 5526, 5527

- Kunugi, M. 5251
 Kurmangaliev, M. K. 5235
 Kuroda, T. 5111
 Kurz, E. 5032
 Kusaka, K. 5511
 Kuzmenko, V. M. 5651
 Kuznetsov, V. F. 5061
 Kvyatkovskii, A. N. 5279
 Kwestroo, W. 5550

 Lahanier, C. 5371
 Lahmann, E. 5039
 Lai, T. T. 5301
 Laird, J. A. 5336
 Lakatos, T. 5113
 Lamprecht, G. J. 5515
 Langguth, K. 5062
 Laquer, H. L. 5558
 Larson, A. H. 5152
 Lazarev, B. G. 5651
 Lazarev, V. B. 5321
 Lead Development Association 5109,
 5174, 5216, 5295, 5541
 Lead Industries Association Inc.
 5370, 5381, 5383, 5385, 5412
 Ledwith, A. 5496
 Lee, S. L. 5499
 Lehmann, J. M. 5042
 Levine, E. 5342
 Lierke, E. G. 5311
 Linares, R. C. 5502
 Lisovskaya, G. P. 5493
 Lomb, M. 5364
 Lovering, D. G. 5292
 Lubrizol Corporation 5340
 Luke, C. L. 5034
 Lusniak-Lech, L. 5228

 McMasters, O. D. 5290, 5521
 McMillan, J. W. 5100
 McNamara, V. M. 5049
 McNaughton, R. R. 5470
 Mackiw, V. N. 5628
 Mader, C. L. 5208
 Maier, N. A. 5338
 Maes, G. L. 5168
 Mahle, K. G. 5265
 Maksimova, O. S. 5183
 Malov, Y. I. 5321

 Mannchen, W. 5158
 Marathon Oil Co. 5332
 Margrave, D. 5410
 Margrave, J. L. 5441
 Marone, M. 5280
 Martin, E. D. 5385
 Martin, J. J. 5287, 5481
 Mashaev, T. A. 5403
 Masi, A. 5094
 Matveev, O. V. 5261
 Mauser, J. E. 5668
 Mazurchuk, E. N. 5573
 Meckelburg, E. 5088
 Medvedovsky, A. B. 5562
 Meguerian, G. H. 5192
 Meier, A. 5043
 Melin, A. 5222
 Metzger, G. E. 5314
 Michalopoulos, C. D. 5456
 Midorikawa, T. 5631
 Mieville, R. L. 5192
 Mihalcescu, M. 5240
 Mikhailova, G. M. 5363
 Mikoda, M. 5111
 Miller, J. F. 5070
 Miller, V. R. 5157
 Milnes, G. C. 5543
 Mina, R. T. 5613
 Mishra, G. 5324, 5353, 5526, 5527
 Mitin, I. I. 5525
 Mitsubishi Kinzoku K. KK. 5095
 Moeller, M. 5039
 Mogileva, M. G. 5429
 Molicka-Haniawetz, A. 5084
 Mollard, F. R. 5090
 Moody, J. W. 5070
 Moon, J. R. 5409
 Moore, A. 5162, 5236
 Morachevskii, A. G. 5320, 5483
 Morales, A. 5103
 Morawski, J. 5150
 Morgan, J. H. 5305
 Morrison, J. D. 5038
 Mortarotto, E. 5136
 Morton, V. M. 5620
 Moser, Z. 5407, 5484
 Mostovoy, S. 5630
 Mottern, D. J. 5341
 Motulevich, G. P. 5402

- Murgulescu, I. G. 5115
 Muromachi, S. 5227
 Mytton, R. J. 5509

 Nablisi, A. H. 5582
 Nagl, F. I. 5584
 Naida, Y. A. 5562
 Nakaidze, D. M. 5179
 Narayan, R. 5292
 Naryashkin, A. G. 5320
 Naryshkin, I. I. 5320
 National Lead Co. 5676, 5677
 Nau, T. P. 5452
 Naudin, F. 5335
 Neider, R. F. 5318
 Nesterov, V. N. 5149
 Nichiporenko, O. S. 5562
 Nigmatova, R. Sh. 5267
 Nikitin, V. I. 5408
 Nisson, G. 5138
 Norman, R. O. C. 5184, 5186, 5604, 5640, 5641
 Northrop, D. A. 5048, 5600
 Nose, H. 5400
 Nosek, M. V. 5291
 Novoselova, A. V. 5261, 5395
 Novoselov, S. S. 5363
 Nowak, S. 5670
 Nozato, R. 5164
 Nygren, C. 5137

 Obrecht, M. F. 5649
 Ofanowska, A. 5469
 Ogawa, H. 5501
 Ohrt, E. 5659
 Okamoto, Y. 5621
 Okazaki, K. 5597
 O'Keefe, T. J. 5521
 Okochi, M. 5400
 Okonnikov, E. G. 5163
 Okuda, S. 5112
 Ol'Dekop, Yu. A. 5338
 Olea, J. T. 5319
 Ollard, E. A. 5219
 Olsen, G. H. 5509
 Onaev, I. A. 5279
 O'Neill, C. 5405
 Onoprienko, G. I. 5529
 Op de Beeck, J. 5430

 Orchard, S. E. 5272
 Osmer, J. A. 5143
 Otter, F. A. 5343
 Otto, H. E. 5225
 Ouchi, H. 5397
 Outokumpu Oy 5474

 Pai Verneker, V. R. 5189, 5300
 Palatnik, L. S. 5031, 5132
 Palmer, L. H. 5346
 Panasyuk, P. V. 5372
 Parissi, C. M. 5166
 Parlov, D. 5611
 Parthe, E. 5052
 Paschen, P. 5277
 Patrov, B. V. 5320
 Pauly, H. 5480
 Pavlenko, I. G. 5275
 Pavlov, S. P. 5403
 Pavlushkin, M. M. 5493, 5546
 Pawlek, F. E. 5148, 5619
 Peker, C. 5532
 Pelzel, E. 5350, 5618
 Pereira, S. 5571
 Perezhogin, G. A. 5589
 Perilstein, W. L. 5347
 Peskovatsky, S. A. 5448
 Petot, C. 5323
 Petrunin, I. E. 5126
 Pfadt, S. 5150
 Pierson, J. R. 5173
 Pilgrim, R. F. 5418
 Pison, R. E. 5376
 Plessey U.K. Ltd. 5263
 Plonka, J. 5150
 Poffenbarger, J. D. 5452
 Pogosyan, V. S. 5613
 Pohle, H. J. 5463
 Pourbaix, M. 5649
 Poustie, M. 5604
 Power, W. H. 5505
 Prazska Akumulatorka N. P. 5594
 Predel, B. 5165
 Presley, B. J. 5104
 Presolite International Co. 5247
 Preuss, H. P. 5665
 Protiva, K. 5232
 Pryaklina, E. S. 5357
 Ptak, W. 5407, 5484

Puddephatt, R. J. 5195, 5254, 5440
Pustovalov, V. V. 5453
Pyburn, C. M. 5485

Qureshi, I. H. 5584
Qureshi, M. 5583

Rachinger, W. A. 5202
Radtko, S. F. 5412, 5437, 5568, 5662
Ramirez-Munoz, J. 5585
Rao, M. L. B. 5487
Rao, V. S. S. 5433
Ratcliffe, S. W. 5599
Raub, E. 5274
Ravdel, A. A. 5146
Ravizza, P. 5094
Regel, A. R. 5071
Regidor, J. J. 5327, 5475
Reid, F. J. 5070
Reininger, H. 5579, 5629
Repco Ltd. 5436
Reti, A. M. 5458
Rey, M. 5420
Reynolds, G. F. 5485
Richardson, B. A. 5354
Riley, J. P. 5293
Rinck, E. 5371
Roberts, J. D. 5498
Rogatschev, T. 5611
Rolls Royce Ltd. 5468
Roth, W. L. 5392
Rothstein, E. C. 5144
Rotter, R. 5669
Rovner, L. 5289
Royuela, J. J. 5520
Rozhdestvenskii, Y. L. 5075
Rubeska, I. 5167
Rubtsov, A. S. 5482
Rudenko, V. N. 5413
Rutkovskii, M. L. 5063
Rybnikova, G. G. 5369
Rzaev, Z. M. 5365

Saakyan, V. A. 5555
Saarivirta, M. J. 5522
Saber, T. M. H. 5561
Safarov, Y. S. 5076
St. Joseph Lead Co. 5348, 5637, 5661
Salinger, G. L. 5654

Salooja, K. C. 5390
Samans, R. 5281
Sanner, G. 5377
Santa Ana, M. A. 5172
Saperstein, Z. P. 5577
Sarma, N. V. 5409, 5503, 5554
Saroyan, J. R. 5081, 5358
Savichev, E. I. 5429
Savitskaya, L. K. 5160, 5310
Savitskiy, A. P. 5160, 5207, 5310
Schaefer, S. C. 5668
Scharfe, W. 5248
Scharfenberger, W. 5581
Schilz, W. 5122
Schlichting, U. 5124
Schönafinger, E. 5391
Schroen, W. 5557
Schulz, W. 5673
Schwabe, K. 5643
Schwaneke, A. E. 5157
Schwermann, W. 5165
Seeck, S. 5653
Seiffert, K. 5223
Selander, S. 5533
Seltzer, M. S. 5616
Semenko, Y. Y. 5651
Semibratova, N. M. 5291
Septarova, Z. S. 5429
Serebryanaya, N. R. 5563
Sergeyeva, L. A. 5121
Shabaik, A. 5074
Shams El Din, A. M. 5561
Shaw, R. W. 5123, 5654
Shchemeleva, G. G. 5586
Sherritt Gordon Mines Ltd. 5411
Sherwood, A. E. 5082
Shimotake, H. 5368
Shirai, K. 5035
Shkolnikov, V. A. 5482
Shopov, N. 5133
Short, N. R. 5322
Shreir, L. L. 5553
Shur, E. G. 5356
Shur, Y. S. 5652
Sidorov, T. A. 5046
Siemens & Halske A. G. 5125
Silaev, A. F. 5128
Silk, T. A. G. 5645
Simmingskold, B. 5113

- Sistiaga, J. M. 5327
 Sizov, Y. M. 5154
 Skarlos, L. 5646
 Sluyters, J. H. 5106, 5540
 Sluyters-Rehbach, M. 5106, 5540
 Smirnov, M. P. 5284
 Smirnova, E. V. 5180
 Smith, T. F. 5204
 Soderquist, R. 5073
 Sokolova, L. S. 5586
 Solomon, P. R. 5343
 Sorenson, R. W. 5171
 Spelthorne Metals Ltd. 5465, 5466, 5467
 Spencer, H. E. 5548
 Spencer, R. N. 5668
 Spinulescu-Carnaru, I. 5615
 Sridhar, R. 5056
 Stachurski, J. 5417
 Starik, P. M. 5258
 Starikova, G. V. 5235
 Starnes, W. H. 5185
 Statsenko, S. I. 5483
 Stedman, R. 5138, 5139
 Steffek, M. 5588
 Steigerwald, R. F. 5307
 Sternberg, S. 5115, 5539
 Stetskiv, O. P. 5372
 Stoller, M. D. 5404
 Stormont, R. W. 5454
 Strauss, A. J. 5460
 Strauss, R. 5367
 Stremousov, V. I. 5482
 Stroj, Z. 5469
 Strojny, Z. 5297
 Strukov, N. M. 5650
 Stubbs, R. L. 5294, 5421
 Studeny, J. 5170
 Sugawara, F. 5547
 Sullivan, P. M. 5283
 Surowiak, Z. 5345
 Suski, L. 5093
 Sutton, P. 5386
 Sympson, R. F. 5171
 Syono, Y. 5547
 Szczap, M. 5670
 Tada, S. 5227
 Takehara, Z. 5486
 Tallant, D. R. 5592
 Tan, S. L. 5399
 Tanaka, M. 5035
 Tanaka, T. 5631
 Tangerini, I. 5512
 Tapia, P. 5172
 Taschow, H. J. 5060
 Tauber, R. N. 5064, 5342
 Tawn, A. R. H. 5273
 Taylor, D. 5293
 Taylor, G. W. 5201, 5205
 Taylor, J. G. 5462
 ten Duis, J. A. 5425
 Tennant, W. C. 5444
 Tennery, V. J. 5181
 Tenzer, R. 5405
 Terzi, M. 5115
 Thacher, P. D. 5447
 Thomas, C. B. 5186
 Thomson, P. F. 5237
 Thwaites, C. J. 5519
 Tidwell, T. H. 5117
 Tiecco, M. 5642
 Tikhonov, V. V. 5555
 Timmer, B. 5106, 5540
 Tinkham, N. 5346
 Tin Research Institute 5519
 Tkach, V. I. 5530
 Tkhomirov, G. P. 5180
 Toby, S. 5209
 Tokar, M. 5601
 Tomashov, N. D. 5650
 Torralba, M. 5327, 5475
 Tougas, R. 5096
 Tovstyuk, K. D. 5258, 5259
 Toye, T. C. 5352
 Tralmer, J. M. 5368
 Trauble, H. 5068, 5507
 Treffleries Leon Bekaert P.V.B.A.
 5648
 Trivedi, R. G. 5536
 Trushina, L. F. 5535
 Tsuya, H. 5508
 Tu, K. N. 5098, 5326
 Tudor, A. B. 5382
 Tundo, A. 5642
 Turnbull, D. 5098, 5326
 Uchida, N. 5260
 Ueda, K. 5501

- Uihlein, A. 5303
 United Kingdom Atomic Energy Authority 5570
 Usacheva, R. I. 5063
 Ust Kamenogorsk Lead Zinc Combine 5422, 5423
 Uvarov, A. V. 5357
 Uzac, R. 5361

 van der Kerk, G. J. W. 5156, 5495, 5497
 van der Meulen, E. 5425
 van Loon, J. C. 5166
 van Oeteren, K. A. 5256
 van Uitert, L. G. 5309
 Vandervell Products Ltd. 5531
 Vanyukov, A. V. 5573
 Varich, N. I. 5029
 Vaschetti, A. 5574
 Vashentsev, Y. I. 5057
 Vasin, B. D. 5339
 Vatkin, Ya. L. 5269
 Vekshin, B. S. 5131, 5268
 Venable, D. 5208
 Ventakatachalapthy, M. S. 5215
 Vereshchagin, L. F. 5563
 Verhoeven, J. D. 5325
 Verink, E. D. 5304
 Verkholtantsev, V. V. 5146
 Verneker, V. R. Pal, 5189, 5300
 Verney, J. 5623
 Vershinina, L. P. 5650
 Vigier, J. 5361
 Vogel, W. 5492
 von Szantho, E. 5276
 Voronyuk, P. I. 5259
 Vromans, P. H. G. M. 5550
 Vyazankin, N. S. 5551

 Wagner, J. W. 5229, 5459
 Wald, F. 5341, 5427, 5454
 Walden, C. C. 5443
 Walters, B. 5667
 Ward, D. H. 5472
 Waring, C. 5187, 5603, 5638, 5639
 Warner, N. A. 5473
 Waroquier, R. L. 5040
 Watson, R. A. 5640
 Watt, L. S. 5108
 Webster, A. H. 5047, 5049

 Weetall, H. H. 5099
 Weidenfeld, L. 5373
 Weigert, F. J. 5498
 Weinmann, K. 5360
 Weiss, A. 5480
 Weliky, N. 5099
 Wentworth, C. 5201
 Werthan, S. 5217
 West, P. D. 5257
 Weston, T. B. 5047, 5049
 Whelan, E. P. 5130
 White, R. A. 5169
 Wiederholt, W. 5197
 Wilkin, G. A. 5509
 Will, T. A. 5068
 Willardson, R. K. 5459
 Willemsens, L. C. 5497
 Williams, R. 5065
 Williamson, W. O. 5112
 Wilson, D. A. 5283
 Winegard, W. C. 5134, 5135
 Winokur, M. 5498
 Winterhager, H. 5222, 5277, 5281
 Witte, H. 5480
 Wittig, F. E. 5140
 Wolak, J. 5266
 Woolley, J. C. 5229, 5528
 Wu, C. K. 5500
 Wu, T. M. 5233

 Yakunin, A. A. 5029, 5530
 Yanagi, M. 5501
 Yang-Sho-Hsyang, G. V. 5030, 5291
 Yanson, I. K. 5401, 5451
 Yavich, P. A. 5278
 Yazawa, A. 5317
 Yingst, P. R. 5316
 Yoshizawa, S. 5486
 Yurchenko, I. I. 5401

 Zaikin, S. A. 5671
 Zaima, S. 5227
 Zaitsev, V. Ya. 5573
 Zakharov, M. S. 5535
 Zaklady Cynkowe 'Szopienice' 5087
 Zalesskii, V. I. 5131, 5268
 Zanolli, L. 5634
 Zarubitskiy, O. G. 5275
 Zarzycki, J. 5335

Zavaritsky, N. V. 5446
Zaye, D. F. 5101
Zehr, S. W. 5476
Zellstoffabrik Waldhof 5595
Zhuravlev, A. K. 5546
Zhuravska, V. 5564
Zielony, W. 5089

Zlomanov, V. P. 5261
Zmbov, K. 5441
Zubov, P. I. 5365
Zuegel, M. A. 5298
Zunkel, A. D. 5152
Zvyagintsev, A. L. 5529

Patents Index 1968

American		1,097,235	5262	Czech		1,257,984	5315
3,310,438	5637	1,103,059	5468	121,444	5270	1,265,991	5567
3,366,515	5411	1,104,018	5332	125,591	5674		
3,366,596	5424	1,104,596	5474			Polish	
		1,105,548	5382	East German		51,818	5087
		1,106,018	5428	55,742	5062		
British		1,108,915	5570			Russian	
1,071,863	5095	1,111,218	5436	French		142,233	5575
1,083,474	5340	1,114,726	5595	1,504,878	5249	188,488	5057
1,093,665	5247	1,114,760	5594	1,529,141	5661	189,278	5141
1,093,902	5285	1,117,684	5531			194,157	5389
1,094,104	5252	1,122,823	5660	German		191,805	5422
1,096,783	5264	1,123,276	5648	1,217,835	5125	197,957	5423
1,097,013	5263	1,123,995	5666	1,255,431	5265	203,906	5675

1968 Book of A.S.T.M. standards. Part 7. Nonferrous metals and alloys (including corrosion tests); electro-deposited metallic coatings, metal powders; nonferrous filler metal; nonferrous surgical implant materials
A.S.T.M. 5617

1968 Book of A.S.T.M. standards. Part 20. Paint, varnish, lacquer and related products—materials specifications and tests naval stores; industrial aromatic hydrocarbons
A.S.T.M. 5663

1968 Book of A.S.T.M. standards. Part 21. Paint, varnish, lacquer and related products—tests for formulated products and applied coatings
A.S.T.M. 5664

1968 Book of A.S.T.M. Standards. Part 32. Chemical analysis of metals; sampling and analysis of metal bearing ores
A.S.T.M. 5633

Protective coatings for metals
R. M. Burns and W. W. Bradley. 5302

Technology of heavy nonferrous metals and alloys
J. H. Cairns and P. T. Gilbert. 5312

History of the zinc smelting industry in Britain
E. J. Cocks and B. Walters. 5667

Installation and maintenance in electroplating shops
E. A. Ollard. 5219

Construction and corrosion protection (Konstruktion und Korrosionsschutz)
K. A. van Oeterenu 5256

Year book of surface technology 1968 (Jahrbuch Oberflächentechnik 1968)
W. Wiederholt. 5197

Analysis see also Lead Analysis

amperometry 5375, 5431, 5433
 atomic absorption 5169, 5378, 5585
 atomic absorption spectrophotometry 5104, 5166-7, 5293, 5533
 atomic absorption spectroscopy 5587
 CDTA 5431
 chromatography 5099, 5101, 5583, 5588
 complexometry 5238, 5240
 dropping mercury electrode titration 5171
 EDTA 5041, 5373, 5376, 5532, 5534
 EGTA 5035
 electrolysis 5242
 general review 5102, 5632
 gravimetric 5328
 ion exchange 5238, 5536, 5582
 neutron activation 5036, 5430, 5589
 oscillography 5103, 5172
 PDA 5041
 photometry 5035, 5244, 5328, 5379, 5380
 polarography 5168, 5243, 5292, 5301, 5328, 5394, 5429, 5431, 5485, 5532, 5590, 5635
 potentiometry 5376, 5534
 radiochemical 5033, 5036, 5100, 5430, 5584
 review of developments 5632
 solvent extraction 5040, 5104-5, 5379, 5380
 spectrophotometry 5034, 5374, 5432
 thermochemical titrimetry 5239
 titrimetry in non-aqueous medium 5241
 volumetric 5245
 X-ray diffraction 5395
 X-ray fluorescence 5377, 5634

Batteries

anodic oxidation 5488
 battery powered vehicles 5107, 5246, 5294-5, 5329, 5381, 5538, 5541, 5593

battery wastes 5220
 concentration cells 5539
 crystallographic changes 5173
 Cyclocat system 5330
 electrode impedance 5106
 electrode reactions 5592
 electrodes 5382, 5540, 5592, 5593-4
 electroplating 5296
 expander paste 5332
 fibre adhesion in electrodes 5595
 general survey 5294, 5312, 5329, 5412, 5593
 grey oxide surface conductivity 5636
 grid materials 5382, 5537, 5637
 high capacity storage 5247
 high speed chargers 5330
 impedance of galvanic cells 5540
 lead-acid 5107, 5173-5, 5246, 5294-6, 5329, 5330, 5381-2, 5435, 5488, 5538, 5541, 5593
 lead chloride 5487
 lead in manganese dioxide 5486
 negative electrode improvements 5594
 organic electrolytes 5487
 plate processing 5174
 production variables 5174
 service life 5174
 solid electrolyte 5434
 specifications 5175, 5435
 thermodynamics 5331
 traction 5107, 5246, 5294-5, 5329, 5381, 5435, 5538, 5541, 5593
 voltaic properties 5434

Bearings

alloys 5176
 bimetallic strip 5108, 5436, 5531
 atomized powder 5622
 composite strip 5108, 5436, 5531
 copper-lead layers 5249, 5531
 fatigue in oil 5176
 maintenance free 5248
 sintered iron/ptfe/lead 5248

Building

adhesive bonding 5383, 5437
algicidal agents 5596
anti-vibration pads 5384
caulking 5542, 5568
Chicago's Marina City 5177
construction in chemical industry 5624-5
corrosion in concrete 5042
corrosion prevention 5110
flashing 5490
general review 5385
laminates 5383, 5437
lead cladding 5058, 5109, 5177
lead sheet for waterproofing 5491
litharge/polyol cements 5568
roofing 5177, 5385, 5490
sanitary pipework above ground 5542
ship's cabins 5333
sound insulation 5043, 5333, 5385-6
specifications 5542

Cables

corrosion in soil 5609
electrolyte corrosion 5250
general reference 5312
lead sheathing 5178, 5250
L-4 coaxial cable 5044
Pirelli factory 5045
sheathing alloys 5044-5
soldering of cable cores 5367
submarine cable 5178

Casting

cored inserts 5297
general reference 5312
ingot structure variation 5334
multistage pump castings 5228
shrinkage control 5297

Cathodic protection

automatic control 5501
effect of continuous cleaning 5650
in power stations 5445
lead and lead alloy anodes 5110, 5198-9, 5305, 5445, 5501, 5553
offshore structures 5198-9
on ships 5305

Ceramics

corrosion of pot clay 5113
crystal growth in glass 5493
crystal/melt interface temperature 5336
dielectric measurements 5050, 5181
dielectric polarization 5050
diniobate 5051
effects of crystallization on electrical properties 5111
effects of fabrication 5049
electrical properties 5201-5, 5298, 5543
ferroelectric ceramics 5050-1, 5201, 5205, 5308, 5438, 5447, 5597-8
ferrites 5262, 5308, 5544, 5601
fluxes 5439
general reference 5214
glass 5046, 5111, 5179, 5180, 5251, 5298, 5388, 5492, 5543, 5545-6
glass sealants 5114
glaze for sewer pipes 5599
'ideal glass' concept 5387
lead/barium 5179
lead borosilicate 5439
lead diborate 5336
lead fluoride-beryllium fluoride 5492
lead kaolin suspension 5112
lead monoxide/silica 5180, 5493
lead pyroarsenate 5182
lead silicate glass, 5046, 5180, 5298, 5387, 5543
lead titanate/barium zirconate 5181, 5389
liquid immiscibility 5439
metastable phase separation 5335
phase equilibria 5439
piezoelectric ceramics 5047-9, 5260, 5264, 5389, 5397
pigment transfer 5252
rare earth orthoarsenates 5182
shock wave compression 5438
solid phase reactions 5183
-titanate -zirconate 5047-9, 5183, 5260, 5263-4, 5438, 5447, 5597, 5600
vaporization 5048, 5600

Corrosion see also **Lead corrosion**
general reference 5256

Electronic applications

automatic superconducting switch 5558
acoustic applications 5398
bimorph elements 5263
diodes 5656
ferrites 5262, 5308, 5405, 5452, 5544, 5601
gamma ray detector 5415
hot conductors 5125
lasers 5257, 5309
lead zirconate coatings 5345
miniature condensers 5345
permanent magnets 5262, 5601
photoconductors 5404, 5545, 5614
photovoltaic detectors 5257
piezoelectric vibrator 5264
Plumbicon colour camera 5399
radio frequency separator 5560
rotors in electric motors 5452
semiconductor encapsulation sealants 5114
stators in electric motors 5452
superimposed layers 5400
thermoelectric generators 5341
transducers 5452
transistors 5509
tunnel junctions 5401, 5451, 5557

Industrial hygiene

antiknock production plants 5510
automotive emissions 5510

Lead

anodic behaviour in alkali 5351
as a reducing agent 5644
atomization 5128, 5311, 5622
ball indentation tests 5349
cathodic incorporation of alkali metal 5313
cellular 5077
cold pressing 5350
contact melting 5207
coolant properties in nuclear reactors 5570
creep 5456, 5618
cutting friction 5127
deformation 5074, 5076, 5137, 5210, 5268

density 5212
diffusion coefficients 5287, 5292
dislocations 5409
dispersion strengthening 5226, 5348, 5411, 5623, 5625, 5637, 5660
dispersion strengthened-welding of 5226
economics of consumption 5625
economics of production 5625
effect on steel 5129, 5630
electromagnetic pump 5142
embrittlement by liquid metals 5310
erosion by silicon carbide grit 5266
erosion by water droplets 5610
evaporation by laser beam 5413
extrusion 5074-6, 5131, 5268
Fermi surface 5613
films 5061, 5656
flow under simple shear 5410
foam, 5077, 5505
general reference 5214, 5312, 5412, 5512, 5662
gold in liquid lead 5211
grain structure 5349, 5406
heat capacity 5138, 5353
heat loss of lead baths 5463
high purity 5280, 5430, 5453, 5456
hot pressing 5210, 5350
impurity redistribution 5207
in current-collecting slider shoe 5095
in steel 5094, 5129, 5136, 5288, 5630
interaction with iron during joining 5126
irradiation 5207
lattice distortion 5446, 5563
liquid 5129, 5211-2, 5287, 5352-3, 5457
lubricants 5095, 5206, 5248-9, 5265, 5347
machinability of leaded steel 5094, 5136
metal spraying 5088, 5579
'MOSEL' reactor 5314
multilayer spall behaviour 5208
neutron radiography 5627
optical properties 5402
particle size measurement 5513
passivation in chromium trioxide 5561
patenting 5355

phonon frequency distribution 5138-9
 photoemission spectrum 5065
 plane plastic deformation 5137
 platinum in liquid lead 5211
 polycrystalline 5410, 5456, 5507
 powder 5128, 5285, 5311, 5347, 5513, 5562, 5565, 5622-3, 5644
 pyrophoric 5209
 rolling 5269, 5618, 5661
 shear 5620
 silver in liquid lead 5211
 slip band distribution 5620
 solubility in liquid sodium 5515
 solute induced hardening 5406
 specifications 5617
 strain after hydroextrusion 5268
 structure 5620
 superconducting 5066, 5123, 5446, 5448, 5654
 surface energy of liquid metals 5352
 tensile strength 5208
 tube rolling 5269
 ultrasonic atomization 5311
 ultrasonic attenuation 5655
 vapour deposition 5565
 viscosity 5457
 viscoplasticity method 5074
 yield point phenomena 5137
 zone refining 5406

Lead alloys

ageing 5164, 5327
 analysis 5034, 5240, 5243-5
 anodic properties 5525
 -antimony 5029, 5129, 5212, 5306, 5315, 5327, 5334, 5457, 5477, 5514, 5527, 5537, 5581, 5631
 -antimony-bismuth 5631
 -antimony-oxygen system 5213
 -antimony-silver 5631
 -antimony-tin 5212, 5457, 5526
 -antimony-tellurium 5237
 -arsenic-oxygen system 5619
 -bismuth 5135, 5165, 5289, 5291, 5306, 5371-2, 5408, 5514, 5580
 -bismuth-cadmium-indium 5160
 -bismuth-tin 5523
 -brass 5227
 -cadmium 5029, 5160, 5482, 5564

-cadmium-tin-zinc 5407, 5484
 -cadmium-zinc 5407
 -calcium 5503
 cellular precipitation 5326
 condensation 5132
 constitutional supercooling 5325
 contact melting 5160
 coolant properties in nuclear reactors 5570
 -copper 5097, 5176
 -copper-chromium 5522
 -copper-chromium-zirconium 5522
 -copper-manganese 5428
 corrosion 5520
 corrosion in H_2SO_4 5306
 creep 5161, 5230-1, 5408, 5618
 crystallization 5235
 decomposition of solid solution 5530
 deformation 5237
 density 5212, 5368, 5581
 diffusion coefficients 5287, 5292, 5481, 5529
 dross formation 5426
 -dysprosium system 5521
 electrical resistivity 5163
 effect of ultrasonics 5235
 effect on fatigue strength of steel 5580
 effect on steel 5580
 electrochemistry 5307
 electron emission during solidification 5158
 -europium system 5290
 evaporation 5132
 fatigue, 5477, 5479
 fibrous composites 5097
 foam 5505
 for vibration damping 5428
 fusible alloys 5370
 general reference 5214, 5512, 5662
 grain growth 5478
 growth of composites from melt 5090, 5097
 heat resisting alloy 5232
 heterogeneous nucleation 5461
 high frequency heating 5031
 -indium 5068, 5092, 5160, 5233, 5343, 5449, 5503, 5506, 5554
 influence of hydrogen on creep 5230

Lead alloys (cont.)

influence of trace metals on creep 5231
interphase tension 5320
interaction parameters 5140
lamellar stability 5091, 5134
lattice parameters 5322, 5480, 5528 5530
lead brass 5227, 5234
liquid structure 5093, 5096, 5132, 5158, 5287, 5324, 5372, 5407, 5457, 5484, 5526-7, 5529
-lithium-hydrogen system 5230
low melting point 5370, 5426
machinability 5227, 5234, 5288, 5522
-magnesium 5029, 5164, 5530
magnetic properties 5400
-mercury 5030, 5267, 5475
metal spraying 5088, 5579
morphology 5130
nucleation by antimony 5461
nucleation by copper 5461
nucleation by iron 5461
oxidation kinetics 5631
phase diagrams 5030, 5229, 5290-1, 5427, 5514, 5521, 5528
phonon spectra 5233, 5556
photoelectric properties 5321
plane plastic deformation 5137
polycrystalline 5159
quenching 5029
recrystallization 5478
Revere No 342 5234
rolling 5661
saturation of surface layers with halogens 5141
Seebeck e.m.f. 5096
-selenium-tin 5528
self diffusion of silver impurities 5529
-silver 5134, 5236, 5306, 5323, 5334
-silver-tellurium 5427
-sodium 5093, 5320-1, 5368, 5515
-sodium-thallium 5483
specifications 5617
structure 5236
superconducting 5067-8, 5398, 5409, 5554
supercooling 5371
superplasticity 5161, 5476, 5524

surface tension 5092, 5321
-thallium 5161, 5233, 5306, 5556
thermal diffusion 5325, 5564
thermodynamics 5096, 5165, 5267, 5324, 5372, 5483-4, 5526-7
thermoelectric characteristics 5096
thermo-mechanical hysteresis 5475
thin films 5132, 5400
-tin 5029, 5031, 5090-2, 5097-8, 5130, 5132, 5157-9, 5162-3, 5212, 5228, 5235, 5306, 5324-6, 5334, 5398, 5426, 5455, 5457, 5476, 5482, 5505, 5524, 5529, 5530, 5629
-tin-tellurium 5229
-tin-zinc 5407
transistor temperature 5233
ultrasonics 5235, 5482, 5525
undercooling at solid/liquid interface 5162
unidirectional solidification 5523
vaporization 5289
viscosity 5457
wear resistance 5141
with non-miscible metals 5525
work softening 5581
yield point phenomena 5137

Lead alloy plating

-copper 5274
-tin 5958-9

Lead analysis see also Analysis

antimony in lead 5432
bismuth in lead 5036, 5430
copper in lead 5430
fume 5169
general review 5102, 5632
in air 5039
in alloys 5034, 5240, 5243-5, 5374, 5485
in aqueous media 5587
in bismuth-containing products 5429
in brass 5240
in cadmium 5173, 5588
in citrate media 5103
in food 5033
in free cutting steel 5328
in glass 5242
in high purity cadmium 5588
in hydrochloric acid 5582

in lubricating oil 5170
in nitric acid of high purity 5535
in ores 5238, 5377
in organic media 5587
in oxalate media 5103
in petrol 5376
in presence of bismuth 5429
in presence of copper 5433
in presence of thallium 5431
in sea water 5099, 5104, 5293
in steel 5328, 5378-9, 5380
in sulphide minerals 5167, 5377
in titanates 5373
in urine 5168, 5533
in water 5040, 5099, 5104, 5591
in zinc 5243, 5590, 5635
in zinc alloys 5243
lead oxide in crystal glass 5242
lead sulphide 5166
lead telluride 5534
manganese in lead 5589
nickel in lead 5244
nickel in lead alloys 5244
separation from other elements 5101, 5241, 5536, 5583-4
simultaneous of lead and cadmium 5168
specifications 5243-5, 5590-1, 5633
styphnate 5032
thallium in lead 5431-2
tin in lead 5245, 5374
tin in lead alloys 5245
traces 5033-4, 5099, 5100, 5104, 5166-7, 5293, 5374, 5378-9, 5380, 5485, 5535, 5587
uranium in lead 5586

Lead coatings

cladding of steel 5058, 5109
corrosion phenomena 5255
corrosion resistant 5110
general review 5197, 5214, 5255, 5302
on aluminium 5340
on iron 5340
on steel 5058-9, 5303, 5316, 5648
on zinc 5340
patenting 5355, 5414, 5462
phosphate 5340
specifications 5617

sprayed coatings 5088, 5579, 5629
test methods 5255, 5316
-tin alloy 5058-9
welding 5286

Lead compounds *see also individual compounds*

acetate 5550
artificial cloud seeding 5270
antiknock 5055, 5119, 5192-3, 5510-1, 5606
as chemical reagents 5442
azide 5189, 5299, 5300, 5608
bromide 5038, 5054, 5548
carbonate 5155
catalysts 5440
chalcogenides 5121, 5455
chelates 5301
chemical reagents 5442
chemically resistant mastic 5062
chloride 5038, 5054, 5057, 5118, 5190-1, 5487, 5502, 5549, 5643
chlorobromide 5038, 5054
chromate 5442
-chromium-oxygen system 5392
cotton preservatives 5494
crystals 5657
diffusion in sodium chloride 5118
disease control 5489
electrochemistry 5115-6, 5643
extrusion 5659
fluoride 5062, 5415
fungicidal wood preservatives 5354
hydrocarbon autoxidation 5193
in petrol 5055, 5119
interaction with halides containing zirconium 5339
intermetallic compounds 5290, 5521, 5659
in vapours of ionic salts 5190
iodide 5115, 5270, 5395, 5614
lead-lead monoxide-aluminium 5202
liquid 5442
lubricant additives 5206
molten salt mixtures 5191, 5442, 5549, 5601, 5608, 5647
molluscicides 5489
molybdates 5657
naphthenate 5144, 5193

Lead compounds (cont.)

nitrate 5037
optical absorption edge 5064
organometallics 5053, 5194-5, 5206, 5254, 5354, 5365, 5391, 5393, 5412, 5418, 5440, 5443, 5489, 5494-5, 5497-8, 5516, 5605, 5645
oxalate complexes 5394
paraperiodate 5271
phase transformations 5563
photodecomposition in solid state 5189
polymorphic transformations 5299
Raman spectra 5657
rare earth compounds 5052
ruthenium elimination in irradiated fuel waste 5271
silicate 5405
sodium niobate 5309
stability in molten salts 5117-8
stearate 5357, 5569
steel resistant to lead compounds 5567
structure 5395, 5547, 5552
sulphur-alkyl lead antagonism 5192
tetraacetate 5184-8, 5253, 5337-8, 5496, 5499, 5603-4, 5638-9, 5640-2
tetraethyl 5055, 5119, 5192, 5393, 5551
tetrafluoride 5646
tetramethyl 5055, 5119, 5192, 5196
tetraphenyl 5393
thermodynamics 5115-8, 5441
tungstate 5657
undecylenate 5155
wood impregnants against marine borers 5443

Lead corrosion see also Corrosion

anodic dissolution in aqueous solutions 5500
electrochemistry 5307
alloys 5520
by silicon carbide 5610
by water droplets 5610
effect of phenol 5609
general reference 5256, 5302, 5312, 5520
in acid media 5120, 5306, 5611

influence of silver on anodic corrosion 5611
influence of thallium on anodic corrosion 5611
in hydrogen chloride in ethanol 5063
in sulphuric and perchloric mixture 5120
in water 5649
manganese nitrate inhibitor 5200
Pourbaix diagrams 5304
zinc nitrate inhibitor 5200

Lead oxide

crystal growth 5143, 5450
dioxide 5057, 5116, 5215
dioxide anodes 5215
effect on steel 5511
electric conductivity 5133, 5450
in batteries 5331, 5434, 5488
in ceramics 5047-9, 5050-1, 5111, 5113-4, 5335
in ferrites 5260
in glass 5111, 5179, 5251-2, 5298, 5388
5493, 5545-6
in glass sealants 5114
inorganic photosensitizer 5444
interaction sodium dichromate 5146
litharge/polyol cements 5568
monoxide 5056-7, 5111, 5113-4, 5143, 5213, 5390, 5444, 5450, 5488
monoxide-antimony trioxide 5213
monoxide reactions with hydrocarbon derivatives 5390
monoxide silica melts 5056, 5111
optical properties 5450
polymorphic transformation 5073
preparation 5550
sodium iodate preparation 5215
softening range 5134
steel resistant to lead oxide 5567
thermodynamics 5056, 5607

Lead plating see also Lead alloy plating

equipment in plating plants 5219
identification-rapid method 5218
identification tests 5082, 5218
intermetallic processes 5275
maintenance in plating plants 5219

non-destructive testing 5082
on steel 5275

Lead production

analysis of flotation products 5669
analysis of slag 5634
anode sludge processing 5674
Avonmouth smelter 5421, 5471, 5624
Batumi works 5278
Berzelius works 5223
Boleslaw works 5469
cadmium extraction from dust 5083
cathodic reduction of lead monoxide 5154
chloridizing roasting of lead sulphide 5148, 5418
cultivation of tailing ponds 5089
cyclone furnace 5472
dezincing lead concentrates 5575
differential tumbling 5518
dust removal in plant 5221, 5672
economics 5625
electric smelting 5668
electrolytic 5673-4
extraction from complex mattes 5279
flotation 5084, 5417, 5419, 5420, 5469, 5671
from used lead batteries 5220
fluid column process 5318
gas purification by bag filters 5672
G. Dimitrov works 5282
general reference 5151, 5312, 5470, 5667
grinding of ores 5469
high purity 5280
hydrometallurgical procedure 5628
Imperial Smelting process 5223, 5421, 5471
influence of grain size on flotation 5084
leaching 5087, 5675
lead cake 5422-3
lead cake preparation 5422
lead cake reprocessing 5423
lead oxide regeneration from waste 5278
lead sulphate from copper scrap 5086
Meggen Mine 5419
melting kettle durability 5224

Metallurgie Hoboken 5151
microprobe applications 5281
multichannel control of flotation 5419
ore beneficiation 5670
ore dressing 5276, 5669
ore particle size 5417
oxide/sulphide furnace charge 5150
powder 5285, 5622, 5673
pulp preparation 5671
recovery from blast furnace matte 5283
recovery from fume 5319
reduction from lead silicate melts 5363
refining by air oxidation 5277
refining with caustic soda 5277
removal of antimony 5277
removal of arsenic 5277
removal of bismuth 5284
removal of cadmium 5277
removal of silver 5224
removal of tin 5277
removal of zinc 5277
roasting of galena 5222
Sherbrooke Metallurgical Co. 5318
slag fuming 5472
slag-metal equilibria 5152
slag studies 5085, 5152, 5154, 5573, 5634
smelting studies 5317
statistical survey 5625
sulphation of lead sulphide 5153
sulphidizing molten lead 5474
temperature measurement of molten slag 5085
thermal sulphidation 5574
thermocouple for molten slag 5085
thermodynamics 5317
Trzebionka ore 5670
ultrafine lead flotation 5420
vacuum dezincing 5473
vacuum treatment of lead matte 5149
wet oxidation for sulphate recovery 5086

Lead single and bicrystals

critical shear stress 5453
growth 5257
temperature dependence 5453

Lead,selenide

conductivity 5124
crystals 5121, 5124, 5455
extrusion 5659
films 5121, 5612, 5653
lead selenide-lead telluride 5555
photoconductivity 5653
photoelectricity 5121
physicochemical characteristics 5261
production by selenosulphate method 5369
semiconductors 5612
thermal conductivity 5555

Lead sulphide

creep 5616
crystals 5121, 5621
films 5121
photoelectricity 5121
photoconductivity 5404
semiconductivity 5509
stabilizer for pvc 5364
sulphation 5153

Lead telluride

analysis 5534
annealing effects 5342
-cobalt 5454
crystal growth 5403, 5459
crystals 5070-2, 5121, 5342, 5403
diffusion coefficients 5072
diffusion of sodium 5566
dislocations 5342
effect of hydrostatic pressure 5071
electrical properties 5615
extrusion 5659
films 5612, 5615
galvanomagnetic effects 5259
Hall coefficient data 5070
helicon resonance 5122
Knight shift 5559
lattice parameters 5322, 5458, 5563
lead telluride-cadmium telluride 5658
lead telluride-lead iodide 5395
lead telluride-lead selenide 5555
lead telluride-lead sulphide 5071
lead telluride-tin telluride 5064, 5322, 5458-9, 5460
magnetic properties 5258-9

oscillatory thermomagnetic effects 5069
phase diagrams 5459
phase equilibria 5658
precipitation phenomena 5342
production by chemical methods 5396
reaction with gold 5341
resistivity 5070
semiconductors 5612
thermal conductivity 5555
thermoelectricity 5071
zone melting 5072

Paints and pigments

accelerated testing 5356, 5360
algicidal paints 5596
alkyd resin media 5466
analysis 5145
antifouling 5416, 5516
anti-livering agents 5665
calcium plumbate 5571
corrosion resistant 5079, 5080, 5256, 5571
driers 5144
electrophoretic deposition 5273
epoxy resin media 5080, 5316
exposure testing 5078, 5080, 5360-1, 5416, 5465-7
formulations 5359
for wood 5144
general review 5197, 5302
in marine environment 5081, 5316, 5359, 5416, 5516
lead cyanamide 5079, 5571
lead naphthenate 5144
lead silicate 5571
light fastness 5360
lead silicochromate 5217, 5316
London five year exposure tests 5465
metallic lead 5078, 5465-7, 5571
Miami Beach tests 5416
on ships 5081, 5416, 5516, 5596
on structural steel 5060, 5078, 5080, 5303, 5316
orange lead 5517
organoleads 5416, 5443, 5516
Pearl Harbour tests 5416
on transmission towers 5078
permissible limit of lead 5382

phthalate media 5080
 pigment dispersion 5147
 pigment optics 5272
 reactions of surfactants 5357
 red lead 5060, 5078-9, 5080-1, 5217,
 5273, 5286, 5303, 5358, 5361, 5665
 resistance to salt spray 5572
 Sayville-Long Island tests 5416
 specifications 5362, 5572, 5663-4
 temperature-sensitive 5468
 testing 5147, 5356, 5416, 5572
 total solids volume 5145
 vinyl resin media 5081, 5358
 water based primers 5467
 weathering resistance 5361
 wet ground mica systems 5217
 wood impregnants 5443
 yellow chrome pigments 5666

Radiation shielding

coolant properties in nuclear reactors
 5570
 general reference 5216
 laminates 5383
 neutron radiography 5627
 packaging for radioactive materials
 5464
 specifications 5464
 transit flask 5315

Rubber and plastics

catalysts for polyurethane foam 5156
 co-polymerization 5365
 lead carbonate 5155
 lead sulphite in polyesters 5424
 lead undecylate 5155
 organolead catalysts 5156
 self-extinguishing polyesters 5424
 stabilizers for pvc 5155, 5364, 5576,
 5676-7

Soldering and welding

cable jointing 5367
 cold welding 5226
 dispersion strengthened lead 5226
 explosive welding to steel 5225
 general survey 5366
 joint strength 5578
 lead alloy solders 5157, 5366-7, 5425,
 5519, 5577-8

preserved rolled steel 5286
 printed circuits 5519
 reaction of α brass 5577

Standards

British

B.S. 3630: Part 7: 1967 5243
 B.S. 3895: Part 2: 1968 5464
 B.S. 3900: Part F4: 1968 5572
 B.S. 3908: Part 5: 1968 5244
 B.S. 3908: Part 11: 1968 5245
 B.S. 4310: 1968 5362
 CP 304: 1968 5542

German

DIN 40,736, Nov. 1966 5175

International

IEC Recommendation 254, 1967 5435
 ISO Recommendation R 713 1968
 5590
 ISO Recommendation R 715 1968
 5635

Polish

PN-67/C-04595, 1968 5591
 PN-67/H-97025, 1968 5622

Superconductivity

alloys 5067-8, 5203, 5398, 5401, 5505-6,
 5554
 current induced transitions 5506
 effects of pressure 5204
 electromagnetic radiation 5401
 electron tunnelling measurements
 5067, 5202-3, 5557
 films 5346, 5448, 5504, 5508, 5651
 flux distribution 5503
 gapless 5344, 5508
 Josephson barriers 5557
 lattice distortion 5651
 magnetic flux lines 5507
 magnetic structure 5068, 5652
 microwave photon interaction 5203
 non-linear properties 5448
 magnetic induction 5449
 phonon spectrum 5067, 5446, 5556
 surface resistance 5560
 tunnelling characteristics 5067, 5202-3,
 5344, 5508
 thermomagnetism 5343
 ultrasonic attenuation 5066, 5123, 5654